

Foundation Design, P.C.

SOIL • BEDROCK • GROUNDWATER

August 29, 2023

The Fowler Family Trust
6176 Hunters Drive
Farmington, New York 14425

Attention: Jim Fowler

Reference: 6240 Pheasant Crossing
Farmington, New York
Geotechnical Consultation, 4906.R

Dear Mr. Fowler:

This letter presents our initial assessment of the (geotechnical) feasibility of constructing a new residence on Parcel C. We have walked the site to check for signs of slope instability and reviewed general soils mapping to develop a sense of the likely soil conditions. Based on this we believe that the site can reasonably support construction of a new residence.

The potential house location is near the top of a nominally 25 foot tall slope. The gradient of this slope is about 2.0 to 2.5H on 1V. While this is somewhat steep it is not excessively steep for the appropriate soil type/conditions. Soil conservation service mapping indicates that the soils are Palmyra and Howard soils, consisting of gravel and sand. This soil can be stable at this range of steepness. Further affirmation of this is the fact that the slope is well vegetated. This indicates to us that it has been stable for a significant number of years. Therefore we conclude that the 'angle of repose' is less steep than the existing 2.0 to 2.5H on 1V slope.

There are some specific Code requirements about setback from the top of a slope, and these are affected by the elevation of the lower level of the structure (i.e. a basement will be set down into the slope, reducing its height above the toe of the slope and allowing the structure to be located closer to the slope). These engineering decisions can be made when you have a specific house location/elevation in mind. Drainage and landscaping aspects of the Site Design will also influence the slope stability as erosion is a primary cause of surface slope problems. These are 'engineering details' to be worked through in the future. At this point we can conclude that, geotechnically, this is a 'buildable lot'. Furthermore, while we do not anticipate structures near the slope on lots A or B, we anticipate that the same conditions apply therein.

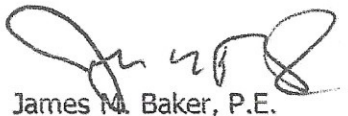


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Let me know if you need us to further assess the situation.

Sincerely,

FOUNDATION DESIGN, P.C.



James M. Baker, P.E.
President

Enc.

